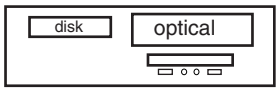
ThinkCentre® M81 Small (5049) - ENERGY STAR® 5.0 - II

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	SATA optical	Graphics	Chassis intr switch	Floor stand	ENERGY STAR 5.0	Global Educ	Win7 preload
5049-F1U	4x3	Core i3-2120	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	N N	Pro 64
5049-E7U	4x3	Core i5-2400	4GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	N N	Pro 64
5049-E8U	4x3	Pentium G840	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	N N	Pro 64
5049-E9U	4x3	Pentium G620	2GBx1 1333MHz	320G 7200	DVD±RW	Intel HD	None	Stand	ES50	N N	Pro 64

- *These models have a 3-year limited warranty*
- *These systems are Microsoft Office 2010 Product Key Ready (O10PKR)*

Positioning	*Mainstream enterprise stability and manageability*
Processor	**Intel® Pentium® G620 Processor** (**2 cores / 2 threads**, 2.6GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller **Intel Pentium G840 Processor** (**2 cores / 2 threads**, 2.8GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller **Intel Core™ i3-2120 Processor** (**2 cores / 4 threads**, 3.3GHz, 3MB cache), Virtualization Technology, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller **Intel Core i5-2400 Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Virtualization Technology, Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-10600 1333MHz DDR3**, four 240-pin DIMM sockets
Graphics	**Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz;
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
SATA cables	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector on planar
eSATA port	None
Media reader	None
Chipset	**Intel Q65 Express Chipset** Platform Controller Hub [PCH] (PCI Express® 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	None
Modem	None
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo
Floor Stand	System floor stand for vertical orientation
Power supply	240 watts, autosensing, 85% PSU
Machine	• Business black color; metal case • 13.3" W X 14.5" D X 3.9" H • 337mm W X 369mm D X 99mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3
Limited Warranty[1]	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Preloaded applications[20] (only some listed)

- Rescue and Recovery™
- ThinkVantage® System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe Reader®
- Skype™ for Windows
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M81 sheet;
For ThinkPlus™ service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced May 24, 2011

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